PATENTS

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Ted Christopher Examiner: F. Jaworski

Serial No.: 08/746,360 Art Unit: 3305

Docket: 9872 Filed: November 8, 1996

FINITE AMPLITUDE DISTORTION-Dated: March 20, 1998

BASED INHOMOGENEOUS PULSE ECHO ULTRASONIC IMAGING

Assistant Commissioner for Patents

Washington, DC 20231

MAR 2 7 1998

LETTER

Sir:

Applicant wishes to bring to the attention of the Examiner that applicant's representative has recently had the opportunity to view a limited segment of two video tapes (without audio) which were reportedly presented publicly at a time prior to the filing of the present application. Neither applicant nor applicant's attorney is in possession of either video tape.

The video presentation appears to be directed to an ultrasound system used to present the cardiac anatomy of a dog. The tapes purport to show (in the absence of any accompanying sound) a baseline image generated by an ultrasound system prior to the injection of contrast agents into (the blood stream of) the subject cardiac system viewed. In the baseline mode (as well as in the contrast mode) shown in one tape, a reference to

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"second harmonic" appears in the frame as the contrast agent appears to be injected into the subject, causing enhancement of the cardiac image.

It is understood that 'the contrast agents utilized in these videos generate an enhanced amplitude return echo at a frequency other than the principle frequency, in order to be distinguished from the echo signal generated from the tissue itself. Accordingly, the reference to the "harmonic" mode or "second harmonic" was apparently used in anticipation of receiving and displaying an echo from the contrast agents and not the native tissue. Any baseline "image" which was presented in the video was the result of the reflection of the principle frequency and a number of harmonics including the first, second, third and nth harmonics, as component parts. As presented by the video, only undifferentiated harmonics are provided in the baseline mode, which frequencies derive from the reflection of a series of sine waves used to generate the principle frequency transducer pulse in the first instance. It is apparent that no effort was indicated in either of these tapes to take advantage of the harmonic principle generated by the tissue (to the exclusion of contrast agents) underlying the present invention.

Respectfully submitted,

Frank S. DiGiglio Registration No. 31,346

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FSD/jc

GP-32305

TRANSMITTAL LETTER (General - Patent Pending)		Docket No. 9872
ALP.		
In Re Application Of: Ted Christopher	· ·	
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Serial No.	Examiner	Group Art Unit
08/746,360 TRADEMARITY November 8, 1996	F. Jaworski	3305
Title: FINITE AMPLITUDE DISTORTION-BASED INHOMOGENEOUS PULSE ECHO ULTRASONIC IMAGING		
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